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MORTALITY FROM CERTAIN CAUSES DURING THE FIRST 9 MONTHS OF 1936¹

This report presents mortality data for 29 States, the District of Columbia, and Hawaii for the first 9 months of 1936, with comparative data for recent years. In addition to the death rate from all causes, rates are shown for 17 specific causes, 4 groups of causes, and for infant and maternal mortality.

The rates are computed from current and generally preliminary reports furnished by State departments of health. Because of some lack of uniformity in the method of classifying deaths according to cause, some delayed death certificates, and various other reasons, these preliminary rates cannot be expected to agree in all instances with final rates published by the Bureau of the Census. The final figures are based on a complete review and retabulation of the individual death certificates from each State. The preliminary rates given in the accompanying table are intended to serve as a current index of mortality until final figures are available.

The populations used for 1934 and 1935 are the official estimates as published by the United States Bureau of the Census on May 11, 1936, which are corrected to agree with the population of the United States as computed from births, deaths, immigration, and emigration since the 1930 census. The populations used for 1936 are the same as those used in previous mortality summaries for that year,² and were arrived at by extrapolation from the official 1935 estimates, using the same annual increment as that used by the Bureau of the Census for the year 1935 as compared with 1934. Populations for 1933 were estimated by making the increment for 1934 over 1933 the same as that used by the Census Bureau for 1935 as compared with 1934.

At the top of the table, rates are given for a group of 21³ States with an estimated population of 72,000,000 that have data available for the first 9 months of each of the 4 years 1933-36. For individual States, data are shown for the first 9 months or for as many of those months as can be included on the basis of available information, with

From the Office of Statistical Investigations, U. S. Public Health Service.

¹ Public Health Reports, July 3 and Oct. 30, 1936.

See footnote to table for States included.

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rates for corresponding periods of 2 preceding years. The following comparisons refer only to the 21 States with complete data.

The death rate from all causes for the first 9 months of 1936 was 11.4 per 1,000 (annual basis), as compared with 10.8, 11.0, and 10.6 in the first 9 months of 1935, 1934, and 1933, respectively. In 17 of the 21 States the rate was higher in the first 9 months of 1936 than in the same period of 1935. In all three quarters of 1936 the rates exceeded those for the corresponding quarters in the 3 preceding years.

The relatively high mortality from all causes is partly accounted for by the increased mortality from influenza and pneumonia during the first half of 1936. The combined mortality from these causes was slightly higher in the first half of 1936 than in the same period of 1935 and 1933, and markedly higher than in 1934, a year of low influenza and pneumonia mortality. Rates for pneumonia were higher in all three quarters of 1936 than in corresponding quarters of the 3 years immediately preceding; 17 of the 21. States showed an increase over the first 9 months of last year and 4 a decrease. Mortality from influenza in the first 9 months of 1936 was about the same as in 1935, higher than in 1934, but lower than in 1933 for the same period; only 6 of the 21 States reported higher rates in the first 9 months of 1936 than in the same period of 1935.

Infant mortality in the first 9 months of 1936 was slightly below last year. Among 21 States with complete data, 12 had lower rates and 9

had higher rates than in 1935.

The mortality rate from meningitis was higher during the first 9 months of 1936 than during the corresponding period in any of the 3 preceding years; 14 of the 21 States had higher rates than in 1935. The incidence of meningitis has stood at a relatively high level since the latter part of 1934. The other infectious disease rates were less in 1936 than in preceding years.

Heart diseases, cerebral hemorrhage, cancer, and diabetes showed increases over recent years. The rise was particularly large for heart diseases, and 20 of the 21 States showed increases over 1935. Although the increase was less for apoplexy and diabetes, it was general, 20 and 19 States, respectively, showing increases for these diseases over 1935. Although the average rate for cancer increased, there were decreases in 9 of the 21 States.

The average tuberculosis rate declined only slightly from the 1935 level, but 9 of the 21 States showed increases

Mortality from certain causes in the first 9 months of 1936, with comparative data for the corresponding period in preceding years

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States included are Connections, District of Columbia, Georgia, Idaho, Illinois, Indiana, Ransas, Louisiana, Maryland, Minnesota, Montana, Montana, New York, Pennsylvania, South Dakota, Tennessee, Virginia, West Virginia, and Wisconstin (estimated population July 1, 1988, 71,740,000). Includes all of the States with available data for the 4 years covered by this summary. For a few causes, 1 to 3 States were omitted because of missing data.

Mortality from certain causes in the first 9 months of 1936, with comparative data for the corresponding period in preceding years—Continued

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SALIENT PUBLIC HEALTH FEATURES OF RHEUMATIC HEART DISEASE 1

By O. F. Hedley, Passed Assistant Surgeon, United States Public Health Service

The object of this article is to summarize the public health aspects of rheumatic heart disease. Rheumatic fever is not included in the very useful synopsis on the control of communicable diseases prepared by a committee of the American Public Health Association (1) probably because of lack of an objective method of diagnosis and administrative control. However, the arrangement and order of items under each disease employed by that committee will be followed in this article, although modified to fit the disease under discussion.

One of the chief difficulties lies in the confusing terminology so generally used. "Rheumatic fever" and "rheumatic infection" are here used to describe the generalized infection, while "rheumatic heart disease" or "rheumatic carditis" describe the cardiac involvement.

Rheumatic heart disease should not be looked upon as a complication of rheumatic fever but as its chief manifestation (2). Were it not for the resultant heart disease, rheumatic fever would be a much less important problem. Joint affections may be absent or result in varying degrees of temporary disability. Rheumatic heart disease is an important cause of acute and chronic disability, invalidism, and early death.

Definitions.—Rheumatic fever is an infectious disease of unknown etiology manifested by proliferative and exudative involvement of endothelial and subendothelial tissues, although other structures may also be involved. It has a predilection for the heart, joints, brain, fascia, subcutaneous tissues, and visceral cavities. Evidences of generalized toxemia are common. Its clinical manifestations are protean, depending on the severity of the infection and the organs and tissues involved. Although single attacks occur, the tendency is toward chronicity. No known type of immunity is conferred by an attack. With each period of activity the heart is usually further damaged.

Rheumatic heart disease is a proliferative and exudative involvement of the valves, endocardium, conduction tissues, myocardium, and pericardium in varying degrees and extent, occurring as the chief manifestation of rheumatic fever. In the acute stage it is an inflammation. In its chronic form it is characterized by sclerosis, resulting in valvular deformities as typified by mitral stenosis, myocardial fibrosis, and adherent pericardium.

¹ From the Office of Heart Disease Investigations, U. S. Public Health Service, Maloney Clinic Building, University of Pennsylvania, Philadelphia.

1. Recognition of the disease.²—Owing to its multiform clinical manifestations, rheumatic fever may be quite easy or extremely difficult to recognize. Polyarthritis with a rapidly progressive pancarditis is not usually difficult to diagnose. Comparatively few cases fall in this category. Joint manifestations are usually minimal and are frequently absent.

The disease tends to become a smoldering low-grade infection, with periods of reactivation or recrudescences. These are characterized by slowly progressive cardiac involvement, indefinite joint, muscle, or "growing" pains, choreic manifestations, loss of weight or failure to gain, pallor out of proportion to the moderate degree of secondary anemia, slight temperature elevation, tachycardia best indicated by an elevated "sleeping pulse", nosebleeds, vomiting, abdominal distress at times severe enough to be mistaken for appendicitis, subcutaneous nodules, and increased leukocyte count and erythrocyte sedimentation rate. The recognition of these signs of activity is of paramount importance in the diagnosis and management of this disease. Reactivation may follow colds, sinusitis, pharyngitis, tonsillitis, and other intercurrent infections, or may occur without any demonstrable antecedent factor.

In adults the joint manifestations of rheumatic fever are usually more pronounced than in children and the cardiac involvement is not so severe.

The diagnosis of chronic rheumatic heart disease depends upon eliciting physical signs characteristic of valvular lesions and adherent pericardium. The X-ray is a valuable adjunct, and the electrocardiograph is sometimes of indirect assistance. Histories of rheumatic fever or chorea can be obtained in only 50 to 75 percent of cases. A negative history, however, does not invalidate the diagnosis. The presence of auricular fibrillation or subacute bacterial endocarditis should excite suspicion of a rheumatic background.

Practically all valvular disease in persons under 30 years of age is due to rheumatic heart disease. Mitral stenosis is the most typical rheumatic lesion and is apparently due to no other cause. Mitral insufficiency with or without mitral stenosis, aortic insufficiency, and stenosis are frequently noted. Mitral valvular disease is the most common. Affections of other valves or of the pericardium are usually found in combination with mitral involvement. While evidence of tricuspid valvular disease is not infrequently found on post-mortem examinations, it is difficult to recognize clinically. Pulmonic valvular involvement is rare.

Functional murmurs, congenital cardiovascular defects, sclerotic valvular diseases, and syphilitic aortitis with aortic valvular insufficiency must be ruled out.

² The paragraph numbers and headings correspond with those in the report of the Committee of the American Public Health Association on The Control of Communicable Diseases (1).

2. Etiological agent.—Unknown. Generally ascribed either to various forms of streptococci or to filterable viruses.

3. Source of infection.—Probably from discharges of the upper

respiratory tract.

- 4. Mode of transmission.—Although difficult to determine in many cases, there is considerable evidence that rheumatic infection is transmitted from person to person. The incidence of multiple cases in families equals that of tuberculosis (3) (4). Localized epidemics in schools, colleges, military organizations, and hospitals have been reported. Waves of rheumatic activity in cardiac hospitals are not infrequent.
 - 5. Incubation period.—Unknown.

6. Period of communicability.-Unknown.

7. Susceptibility and immunity.—While even intrauterine infection has been noted, the disease is infrequent under 3 years. Greatest frequency from 7 to 10 years, the peak incidence of initial cases occurring at about 7 years (5) (6). Diminished initial case incidence after puberty. While first attacks are not infrequent among adults, a careful history often reveals previous rheumatic infection in childhood.

An attack of rheumatic fever results in increased susceptibility to further attacks. In children under 10 years of age subsequent attacks occur in approximately 80 percent of cases.

8. Prevalence .-

A. Found only in human beings. Has not been experimentally transmitted.

B. Most frequent in cooler regions of the temperate zones. Infrequent in the tropics. Incidence higher in the Northern States, especially in New England, than in the South. Little difference in incidence in seaboard and inland areas of similar latitudes. Altitude unimportant except as it influences temperature. Rainfall not important factor. Proximity of dwellings to bodies of water of doubtful significance.

C. Slightly more frequent in females.

D. More common in whites than Negroes. Nationality probably unimportant.

E. Found more in urban than rural populations. Especially common among the industrial population of large cities.

F. More frequent among the poor than the well-to-do; cannot, however, be strictly regarded as a disease of poverty.

G. Malnutrition and poor living conditions predispose to rheumatic infection. No evidence that the disease is markedly influenced by lack of vitamins.

H. Incidence: Rheumatic heart disease accounts for 15 to 40 percent of clinical heart disease in the United States, depending

on the locality. The writer found that 13 percent (7) of the deaths from heart disease in Washington (D. C.) hospitals during 1932 was due to this cause. Owing to its extreme chronicity, it is expected that the percentage of heart disease due to rheumatic infection among series of fatal cases is less than that among clinical cases. Paul (8) estimated that there are 840,000 cases in the United States. The importance of this form of heart disease lies in the fact that it accounts for 90 percent of the heart disease under 30 years of age. School surveys indicate that from 0.5 to 4.0 percent of children show evidence of rheumatic heart disease. It is the type of heart disease causing the largest number of rejections for life insurance and military service. During the World War 26 persons in 1,000 were rejected in the draft for heart disease, mostly rheumatic heart disease. It results in maining and death during the period of greatest social and economic usefulness. Due to its extreme chronicity, it results in varying degrees of disability over a longer period than any other kind of heart disease. The average age at death is about 30 years. In the northern part of the United States it is the third most important chronic infectious disease, exceeded only by tuberculosis and syphilis.

9. Methods of control.—The prevention of a disease is usually dependent on adequate knowledge concerning its etiologic agent, mode of transmission, and a reliable objective clinical, serological, or roentgenological basis for its diagnosis. In the case of a disease of childhood, a test for determining susceptibility is highly desirable. None is at present available for rheumatic fever. The following is presented with these limitations in mind and with the desire to utilize existing information to combat this disease.

A. The infected individual, contacts, and environment:

1. Recognition of disease: Clinical symptoms and signs of rheumatic fever and rheumatic heart disease. Its insidiousness and protean manifestations must ever be kept in mind.

2. Reporting: Due to lack of satisfactory criteria, it is doubtful whether rheumatic fever morbidity should be made reportable except for research purposes. While rheumatic heart disease is more easily diagnosed, most cases seen on routine examinations are inactive, and little would be gained by reporting them other than for special studies.

Deaths from rheumatic heart disease are not tabulated as an entity but are listed under rheumatic fever and various forms of heart disease. For this reason it is difficult to determine specific death rates and trends in this disease. Physicians should be encouraged to report rheumatic heart disease deaths according to etiology. The International List of Causes of Death should be revised to permit proper compilation of the reported mortality (9).

- 3. Isolation: Cases showing evidence of rheumatic activity should be separated at least to the extent of avoiding intimate contact with their fellows. Due to the close association between various forms of sore throat and rheumatic fever, persons suffering from acute or chronic tonsillitis and other respiratory infections should avoid close contacts with rheumatic subjects. Physicians. nurses, teachers, and other attendants with upper respiratory infections should not be assigned to duty among rheumatic cardiac patients. Visitors with these conditions should be refused permission to see patients. Similarly, persons with upper respiratory infections and those with active rheumatic infections should avoid close relations with other persons, especially with young children. These precautions are suggested as it has been noted that a high proportion of both first attacks of rheumatic fever and recrudescences of the infection are initiated or shortly preceded by attacks of upper respiratory infection.
- 4. Concurrent disinfection: Due to extreme chronicity strict concurrent disinfection appears impracticable. Reasonable care is urged.
 - 5. Terminal disinfection: None.
 - 6. Quarantine: None.
 - 7. Immunization: None.
- 8. Investigation of source of infection: Due to the high incidence of more than one case in a family, efforts should be made by the attending physician to ascertain whether there are rheumatic stigmata among other members. While it is usually difficult to determine a sequence of events leading to the cases under consideration, much can be done by this method to bring other members of the family under medical care.

B. General measures:

- 1. The realization by all concerned that any kind of joint or "growing" pains in children is potentially serious and demands careful investigation. The nervous or fidgety child should be examined for chorea.
- 2. Diseased tonsils should be thoroughly removed as soon as is safely possible. Tonsillectomies should be performed when there is a history of repeated sore throats even though the tonsils appear normal on examination. The routine removal of healthy tonsils is not recommended. The early removal exerts a beneficial influence on the incidence and severity of rheumatic heart disease. Kaiser (10) noted among 48,000 school children that 34 percent fewer children had histories of rheumatic infection when tonsillectomies had been performed. In a clinical study of 1,200 rheumatic children the advantage in favor of tonsillectomies was

reduced to slightly less than 10 percent when compared with the expected rate of rheumatic infection among previously tonsillectomized children (11). Kaiser believes that these figures represent the minimum and maximum benefits of tonsillectomy in the prevention of rheumatic infection and that the probable advantage is about 15 to 20 percent in favor of previously tonsillectomized children (12). He also noted that the more severe forms of carditis were less frequent and that, consequently, the mortality was reduced about one-half among children tonsillectomized previous to the onset of rheumatic infection. Mackie observed that tonsillar infection was twice as frequent among rheumatic children as among normal controls (13).

Tonsillectomies should not be regarded as a specific method for prevention and too much should not be expected in a given case. It is only in the aggregate that the benefit becomes apparent.

In well advanced cases of rheumatic heart disease the removal of tonsils is recommended as a general hygienic measure and to reduce upper respiratory infections. It is doubtful whether the ultimate prognosis is greatly affected.

3. The school medical examination should be better utilized as a measure against rheumatic heart disease. All pupils should be stripped to the waist for physical examination. A careless examination is worse than useless, as it may result in a sense of false security. To many uneducated persons, "the doctor says" is sufficient.

School nurses and teachers should be trained to be on the alert for the more easily detectable evidence of rheumatic infection and to report such cases to the school physician for further examination. Cases with rheumatic activity should be excluded from school. Treatment should be carried out by the family physician or suitable clinic.

4. School authorities should cooperate in the management of the disease insofar as it pertains to school life. Special schools or classes for rheumatic cardiacs are not, in general, recommended; the psychological effect is bad. Furthermore, it is sometimes detrimental to these children to transport them long distances to a special school; it is better to enroll them in schools near their homes and to limit their activities according to their functional capacity. Special provision should be made for rest periods, the privilege of riding elevators, avoidance of harmful exertion, and reduction in the amount of school work carried. Arrangements should be made for supplemental feeding as needed. Teachers and school nurses should be instructed to screen out cases not doing well for further examinations by the school physicians.

5. School medical authorities, including college health services. should assist in the vocational guidance of persons with rheumatic heart disease. They should be tactfully advised against planning

careers which they have little chance of consummating.

6. Candidates for athletic teams should be subjected to a careful physical examination at the beginning of each practice season. Those with organic heart disease should not be permitted to engage in strenuous competitive athletics. Candidates with possible or potential heart disease should be given a complete cardiac survey by a competent specialist. In case of doubt it is better to err on the side of conservatism and refuse permission to play. On the other hand, it is unfair to deprive a person of the pleasure of athletics and possibly develop a cardiac neurosis because of some inconsequential finding.

- 7. Convalescent cardiac hospitals where patients with rheumatic fever are treated in a manner similar to that followed in pulmonary tuberculosis have never been developed on a sufficient scale to determine their value. It is estimated that there should be 6 to 8 beds per 100,000 population devoted to this purpose. Few cities have any facilities for the care of these patients. These hospitals are so crowded with far advanced cases of rheumatic heart disease requiring domiciliary care that few beds are devoted to children convalescing from rheumatic fever with little or no evidence of heart disease. Aside from the humanitarian aspects, these institutions almost invariably serve as research and teaching centers and should be encouraged for this reason.
- 8. During the past few years much has been written about sending rheumatic fever patients to warm climates. While this is helpful in limited cases, it does not appear practicable on a large scale. Care should be exercised in selecting the locality. providing proper medical care, and determining in advance that these patients will not become a burden on the Southern States. One should be prepared to maintain the patient there for a long period, preferably several years.
- 9. It is a mistake to consider rheumatic cardiac patients in the same category as those afflicted with disabilities of locomotion. The motor cripple, with the exception of the patient with bone and joint tuberculosis, usually represents an end result. In fact, varying degrees of return of function can be expected. On the other hand, the rheumatic cardiac subject is liable to reactivation resulting in further cardiac damage.
- 10. The management of rheumatic infection depends largely upon the recognition of activity outlined in section 1. Patients should be kept in bed for some time after all evidences of activity

have subsided. When the patient is underweight, efforts should be made to correct it by a suitable diet. This should be wellbalanced from the standpoints of protein, fat, and carbohydrate intake and the accessory vitamins. Secondary anemia is a prominent symptom in many cases and must be treated with iron and in some cases by blood transfusions. The patient's mode of living has to be regulated to fit the cardiac reserve. Salicylates are of value in controlling the arthritic manifestations but have little effect on cardiac involvement. When congestive failure supervenes, it must be treated by appropriate measures.

11. In view of the high incidence of this disease among the lower economic groups, especially in large cities, it is doubtful whether much can be accomplished without a betterment of living conditions. It is confidently felt that better housing, the provision of proper food and clothing, adequate medical care, and other measures to promote child welfare will be reflected in a lower incidence of this disease.

ACKNOWLEDGMENT

The author is indebted to Dr. C. C. Wolferth, of the Robinette Foundation of the University of Pennsylvania, for a number of helpful suggestions in the preparation of this paper.

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CONTROL OF CHROMIC ACID MISTS FROM PLATING TANKS 1

By Edward C. Riley, Assistant Public Health Engineer, and F. H. Goldman, Associate Chemist, United States Public Health Service

Since the investigation of the health hazards in chromium plating by Bloomfield and Blum (1) in 1928, chromium plating has been widely used in industry where a brilliant luster and a hard corrosion-resisting surface are desired. In almost every case a cross-draft ventilation system has been utilized to remove the mists and fumes, but few data regarding the effectiveness of this type of exhaust are available. By measuring the air velocity and sampling the air in a chromium plating shop, an attempt has been made here to evaluate the control with reference to the standards recommended in 1928 (1).

Three instruments were used to measure the velocity at the face of the exhaust hood. The kata thermometer and anemometer were used to check the newer and more convenient Alnor velometer. An additional check was obtained by measuring the static suction on the hood.

Air samples were collected by the modified Greenburg-Smith impinger (2) at the rate of 1 cubic foot per minute. A 5 percent solution of sodium carbonate (Na₂CO₂) was used as a collecting medium.

Where low concentrations were encountered, samples were taken for several hours, while much shorter sampling periods sufficed for heavy concentrations such as were encountered when no local exhaust was used. In every case the impinger flask was attached directly over the edge of the tank so that the air intake was about 1 foot above the side of the tank and 1½ feet above the solution in the plating tank. When a man is working over the plating tank he breathes air from about this level and should be subjected to the concentrations obtained by this sampling technique.

Two samples were collected simultaneously, the suction being produced by two Hancock air ejectors operated by compressed air at 50 to 60 pounds per square inch. The flow was regulated by orifices calibrated to give 1 cubic foot per minute.

The amount of chromic acid in these samples was determined by the iodometric method (1). The samples were acidified with sulphuric acid, potassium iodide was added, and then the samples were titrated with 0.01 N sodium thiosulphate, using starch as an indicator.

Table 1 summarizes the results obtained. All tests were made using current densities of 150 to 200 amperes per square foot of surface area.

Although adequate control was maintained when velocities of about 1,500 and 2,000 feet per minute were created at the face of the

¹ From Laboratory of Industrial Hygiene, U. S. Public Health Service.

hood, when the velocity was reduced to about one-third the control was unsatisfactory. With no exhaust the general atmosphere becomes polluted even in a large shop with good general ventilation. In this case, the concentrations to which the operator would be exposed are decidedly unpleasant and may produce irritation (1).

With adequate exhaust ventilation there is little difference between the operator's exposure and the general atmosphere, whereas the operator is exposed to greater pollution when no local exhaust is utilized.

For control purposes the velocity at the point of generation of the mist or fumes is the most important single factor. Using the equation $Q=100L\times W$, where Q=capacity in cubic feet per minute, L=length of tank in feet, and W=width of tank in feet, the capacity of the exhaust system may be roughly computed (3).

Since the mist originates at the cathode and anode, which are usually at a distance from the face of the hood, the quantity (Q) seems a better criterion than the face velocity. A value of Q=50 $L\times W$ is suggested for each hood, since in good practice there are usually two hoods, one on each of the long sides of the tank. The use of the equation given checks with values found in systems known to operate successfully.

SUMMARY

In large rooms with good general ventilation alone, the atmosphere near chromium plating tanks may contain concentrations of chromic acid greater than 1 milligram per 10 cubic meters, which has been taken as the safe limit (1). With a cross-draft local-exhaust system it is possible to keep the concentration down to less than this limit.

RECOMMENDATIONS

For the standard type of plating tank, a cross-draft exhaust system satisfying the equation $Q=100~L\times W$ has been found adequate.

Previous recommendations suggested by Bloomfield and Blum (1) have been confirmed and are again emphasized.

TABLE 1 .- Summary of results

Concentration of CrOs, mg per 10 cubic meters	Num- ber of samples	Size of tanks $L \times W$ (feet)	Local ex- haust ventila- tion, cubic feet per minute	Cubic feet per min- ute per foot of slot	Approxi- mate velocity at face of hood	Remarks
0.33 0.34 11.2 36.8	1 2 2 2	5×5 20×4 20×4 20×4	2,500 9,000 3,000 None	250 225 75	2,000 1,800 600	Exhaust on 2 sides. Exhaust on 2 long sides. Do. General ventilation good.
28 0 27.8	1	20×4 5×5	do	*********		Strong breeze outside causing ex- ceptionally good general ventila- tion.
0.26	1	••••••	On full None			General air near tanks. General air near tanks. Natura ventilation good.

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FIVE HUNDRED CASES OF SCARLET FEVER CAUSED BY USE OF RAW MILK FROM INFECTED COW-A CORREC-TION

In the report of the epidemic of scarlet fever caused by the use of raw milk from an infected cow, published in the Public Health REPORTS for January 22, 1937, page 113, the outbreak was stated to have occurred in Oswego, N. Y. This was an error; it occurred in Owego, Tioga County.

DEATHS DURING WEEK ENDED JANUARY 16, 1937

(From the Weekly Health Index, issued by the Bureau of the Census, Department of Commerce)

	Week ended Jan. 16, 1937	Correspond- ing week, 1936
Data from 86 large cities of the United States: Total deaths. Average for 3 prior years. Total deaths, first 2 weeks of year. Deaths under 1 year of age. Average for 3 prior years. Deaths under 1 year of age, first 2 weeks of year. Deaths under 1 year of age, first 2 weeks of year. Deaths under 1 year of age, first 2 weeks of year. Death from industrial insurance companies: Policies in force. Number of death claims. Death claims per 1,000 policies in force, annual rate. Death claims per 1,000 policies, 2 weeks of year, annual rate.	11, 152 9, 787 22, 555 642 631 1, 361 69, 211, 701 16, 652 11. 8	9, 440 19, 501 569 1, 183 67, 939, 756 14, 700 11. 3

MORTALITY SUMMARY FOR LARGE CITIES, 1936

Number of deaths, death rates, and infant mortality for a group of 86 large cities in the United States for the 53-week period Dec. 30, 1935, to Jan. 2, 1937, and comparison with 1935

[From the Weekly Health Index, Bureau of the Census, Department of Commerce]

Provi	sional mor year	tality fign	ires for	Final r			calendar
Total deaths!	Death rate (per 1,000 esti- mated popula- tion)?	Deaths under 1 year ¹	Infant mor- tality rate 3 4	Total deaths	Death rate (per 1,000 esti- mated popula- tion)	Deaths under 1 year	Infant mor- tality rate
458, 754	12.3	29, 424	81	427, 736	11.4	31, 229	84
4, 910 11, 684 3, 859 11, 670 1, 720 7, 760 1, 458 1, 652 1, 173	8.4 15.0 17.1 13.6 11.7 13.1 13.1 13.9 10.8 16.1 15.8 11.5 12.8 15.7 12.8 13.9 14.3 12.8 13.9 12.7 12.8 13.9 14.3 15.7 12.8 13.9 14.0 15.8 16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0	190 131 427 898 396 824 100 478 103 155 112 1,889 490 865 205 320 86 218 79 110 87 208 27 172 173 350 87 208 345 430 193 87 208 431 1,601 1,697 185 319 188	47 54 75 67 83 53 59 49 61 61 62 63 63 63 64 65 66 68 68 68 68 68 68 68 68 68	2, 207 2, 016 4, 340 11, 149 3, 348 11, 1581 7, 187 1, 426 1, 591 1, 591 1, 591 1, 591 1, 100 35, 431 7, 105 1, 988 4, 408 2, 656 4, 369 1, 918 13, 644 1, 11, 147 1, 145 1, 129 1, 400 1, 208 1, 918 1, 918 1, 918 1, 918 1, 918 1, 918 1, 918 1, 918 1, 187 1, 208 1, 918 1, 918 1, 918 1, 918 1, 918 1, 118 1, 208 1, 918	8. 2 15. 8 16. 0 11. 8 14. 7 12. 4 13. 3 10. 9 9. 9 15. 2 14. 5 10. 8 11. 3 10. 6 11. 3 10. 8 11. 1 11. 1 10. 8 11. 1 11. 1 11. 1 12. 4 13. 3 10. 8 11. 3 10. 8 11. 3 10. 8 11. 3 11. 1 11. 1 12. 4 13. 3 10. 8 11. 3 10. 8 11. 3 11. 1 11. 1 12. 4 13. 3 14. 5 15. 7 16. 8 17. 8 18. 8 19. 9 19.	196 109 409 409 409 409 409 409 409 409 409 4	44 47 74 74 64 64 65 55 55 56 61 61 61 61 61 61 61 61 61 6
	Total deaths! 458, 754 2, 241 1, 970 4, 910 11, 684 1, 652 1, 173 38, 610 7, 760 10, 770 4, 784 1, 633 1, 642 1, 633 1, 433 1, 542 1, 639 1, 206 1, 756 1, 206 1, 758 1, 207 1, 759 1, 207 1, 458 1, 207 1, 759 1, 207 1, 458 1, 207 1, 458 1, 207 1, 458 1, 208 2, 208 2,	Total deaths! Death rate (per 1,000 estimated population); -458, 754 12.3 -2,241 8.4 1,970 15.0 4,910 17.1 11,684 14.2 -3,850 11.6 11,670 14.8 1,720 11.7 7,760 13.1 1,458 12.8 1,652 13.9 1,173 38,610 10.8 1,750 16.2 10,770 11.6 4,784 15.8 3,689 12.7 2,900 13.9 4,653 15.7 1,826 11.8 1,433 13.2 1,438 12.8 1,433 13.2 1,438 12.8 1,433 13.2 1,438 12.8 1,433 13.2 1,438 12.8 1,433 13.2 1,438 13.2 1,542 12.8 1,433 13.2 1,542 12.8 1,642 13.8 1,433 13.2 1,542 13.8 1,438 13.9 1,538 10.9 2,200 12.7 1,756 10.0 2,213 12.9 4,333 12.8 6,745 13.6 1,536 9,7 17,001 11.8 4,817 18.0 1,672 15.2 5,800 12.0 3,025 10.2 1,339 14.0 1,070 10.4 4,817 18.0 1,672 15.2 5,800 12.0 3,025 10.2 1,339 12.0 3,025 10.2 1,339 12.0 3,025 10.2 1,339 12.0 3,025 10.2 1,339 12.0 3,025 10.2 1,339 12.0 3,025 10.2 1,339 12.0 3,025 10.2 1,339 12.0 3,025 10.2 1,339 12.0 3,025 10.2 1,339 12.0 3,025 10.2 1,339 12.0 3,025 10.2 1,31 1.5 3,661 15.5	Total deaths! Death rate (per l,600 estimated population)? -458,754	Total deaths Death rate (per 1,000 estimated population) 1 1 1 1 1 1 1 1 1	Total deaths!	Death rate (per 1,000 estimated population) Deaths tality rate Total deaths Deaths tality rate	Total rate (per rate (per rate) Death rate (per ra

See footnotes at end of table.

Number of deaths, death rates, and infant mortality for a group of 86 large cities in the United States for the 53-week period Dec. 30, 1935, to Jan. 2, 1937, and comparison with 1935—Continued

	Provi	isional mor year		ires for	Final mortality figures for calendar year 1935					
City	Total deaths	Death rate (per 1,000 esti- mated popula- tion) ³	Deaths under I year ¹	Infant mor- tality rate	Total deaths	Death rate (per 1,000 esti- mated popula- tion)	Deaths under 1 year	Infant mor- tality rate		
Philadelphia	25, 459	12.8	1,411	47	24, 118	12.1	1, 453	46		
Pittsburgh	9, 146	13.4	636	81	8, 404	12.3	614	50		
Portland, Oreg		13.6	166	38	4, 020	12.7	142	34		
Providence	3,340	13.0	209	40	3, 166	12.3	213	41		
Richmond	3, 281	17.7	236	77	2,941	15.8	240	75		
Rochester	4,000	12.1	198	40	8, 640	10.8	229	46		
St. Louis	12, 549	15.1	422	34	10, 533	12.6	666	82		
St. Paul	3, 235	11.5	149	30	3, 113	11.0	177	87		
Salt Lake City	1,802	12.3	144	41	1,806	12.3	174	80		
Ban Antonio	3,772	15.6	623	108	3, 251	13.4	532	96		
San Diego	2, 489	14.7	141	46	2, 281	13.4	111	39		
San Francisco	9, 162	13.6	291	41	8, 502	12.6	252	38		
Schenectady	1,051	10.9	64	46	1,088	11.2	66	46		
Benttle	4, 979	13.1	173	35	4, 623	12.1	203	41		
Somerville	983	9.2	45.	38	862	8.0	42	31		
South Bend	917	8.1	62	40	991	8.7	100	61 54 52		
Spokane	1, 684	14.4	125	57	1,721	14.6	112	54		
Springfield, Mass	1,891	12.2	129	54	1,747	11.2	134	52		
Byracuse	2, 494	11.4	163	45	2, 428	11.1	168	47		
Tacoma	1, 614	14.8	71	39	1,436	13.1	66	36		
Tampa	1, 326	12.0	80	50	1, 283	11.6	94	57		
Toledo	3,888	12.8	220	47	3, 591	11.8	241	54		
Trenton	1,936	15.6	133	55	1,768	14.2	127			
Utica	1, 427	13.9	86	45	1, 531	14.8	91	51		
Washington, D. C	9, 217	18.7	848	72	8, 483	17.1	642	80		
Waterbury	899	8.8	74	54	1,061	10.4	67	87		
Wilmington, Del.	1, 514	14.3	108	51	1, 484	13.9	133	89		
Worcester	2, 699	13. 5	171	51	2, 503	12.5	160	48		
Yonkers	1, 201	8.3	82	48	1, 111	7.6	61	35		
Youngstown	1,931	10.9	130	43	1,841	10.4	117	42		

Based upon telegraphic reports received each week from city health officers.
 Rates on the basis of a calendar year.
 The infant mortality rate is the number of deaths under 1 year of age per 1,000 live births.
 Provisional rate is computed from deaths under 1 year as reported each week and estimated live births for 1936.
 Mortality rates based upon population Apr. 1, 1930, decreased 1920 to 1930; no estimate made.

PREVALENCE OF DISEASE

No health department, State or local, can effectively prevent or control disease without knowledge of when, where, and under what conditions cases are occurring

UNITED STATES

CURRENT WEEKLY STATE REPORTS

These reports are preliminary, and the figures are subject to change when later returns are received by the State health officers

Reports for Weeks Ended January 22, 1937, and January 25, 1936

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Jan. 23, 1937, and Jan. 25, 1936

	Diph	theria	Infl	uenza	Me	asles	Mening	gococcus ingitis
Division and State	Week ended Jan. 23, 1937	Week ended Jan. 25, 1936	Week ended Jan. 23, 1937	Week ended Jan. 25, 1936	Week ended Jan. 23, 1937	Week ended Jan. 25, 1936	Week ended Jan. 23, 1937	Week ended Jan. 25, 1936
New England States:								7
Maine New Hampshire Vermont	1	3	204	40	96 22 5	195 31 121	0	0
Massachusetts	3	8			1.074	344	0	2
Rhode Island	1		4		188	120	0	0
Connecticut Middle Atlantic States:	3	2	1, 152	18	307	87	0	3
New York		50	1 432	1 21	280	916	17	22
New Jersey	8	14	356	11	467	33	6	
Pennsylvania East North Central States:	61	41			90	518	6	
Ohio	41	27	115	7	39	60	6	
Indiana	20	80	807	47	8	165	3	
Illinois.	23	48	486	. 22	26	47	8	12
Michigan	23	11	139 2,462	53	50	52 74	5	
Wisconsin		1	2, 902	50	24	74	1	
Minnesota		4	11		25	104	0	9
Iowa	8	17	1, 564	7	3	5	Ö	9
Missouri	15	31	1,624	214	3.	21	0	2
North Dakota	1	8	460	16	1	4	1	0
South Dakota		9	266		2 3	14	2	0
Nebraska		9	94		3	56	0	0
Kansas.	7	17	4, 988	25	3	41	0	1
South Atlantic States:		100			400	***		
Delaware	7	7	32 416	*******	138 253	113	0	0
Maryland L. District of Columbia.	9	31	143	15	31	107	7	
Virginia.	25	44	190		188	34	7	
West Virginia	6	20	900	61	17	4	6	
North Carolina	29	31	62	ii	89	21	1	
North Carolina 3	13	3	861	291	. 0	3	5	1
Georgia *	ii	18	470	193			4	ñ
Florida	8	8	50	1	6	3	10	0
East South Central States:			-	1		-		
Kentucky 4		15		33		5		8
Tennessee	20	24	746	122	15	25	6	9
Alabama 3	14	23	399	302	2	19	1	2
Mississippi 3 3	6	9					i	1

See footnotes at end of table.

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Jan. 23, 1937, and Jan. 25, 1936—Continued

	Diph	theria	Infl	ienza	Me	asles	Menin men	gococcus ingitis
Division and State	Week ended Jan. 23, 1937	Week ended Jan. 25, 1936	Week ended Jan. 23, 1937	Week ended Jan. 25, 1936	Week ended Jan. 23, 1937	Week ended Jan. 25, 1938	Week ended Jan. 23, 1937	Week ended Jan. 25, 1936
West South Central States: Arkansas. Louislana. Oklahoma . Texas 3. Mountain States:	8 27 4 67	13 19 10 64	651 193 485 2, 421	94 6 183 347	4 3 442	2 56 53	1 5 6 5	2
Montana Idaho Wyoming Colorado New Mexico	8	8 1	2,708 843	57 2	71 1 8	54 90 1 8	0 0 0 1 2	
Utah L	ī	3	331 747 70	92	32 172 16	2		
Washington Oregon California	42	2 44	226 2,824 6,210	16 129	29 14 82	193 674 987	0 1	
TotalPirst 3 weeks of year	1, 917	735 2, 301	35, 953 71, 368	2, 547 8, 115	12, 549	5, 505 15, 592	130 431	536
Division and State	Week ended Jan. 23,	Week ended Jan. 25,	Scarle Week ended Jan. 23,	Week ended Jan. 25,	Week ended Jan. 23,	Week ended Jan. 25,	Week ended Jan. 23,	Week ended Jan. 25
New England States: Maine New Hampshire Vermont Massachusetts Rhode Island Connecticut	0 0 0	0 0 0 1 0 0	18 4 1 235 43 99	23 18 11 280 18 63	00000	0 0 0	21 0 0 0 0 0 3	
Middle Atlantic States: New York New Jersey Pennsylvania East North Central States:	1 0 0	1 0 1	783 131 641	899 243 620	18 0 0	0	8 0	-
Ohio	0 1 0 0	0	289 164 466 659 839	307 301 584 316 598	26 0 15	0 17 0 23	2 1 8 2 1	11 7 2
Minnesota. Iowa	8 0 0 0 0	0 0 1 0 0 0 1	141 165 206 21 87 67 256	353 203 210 79 71 163 213	9 12 75 15 0 13 26	15 20 3 7 9 28 9	0 1 1 0 0 0	000
Kansas outh Atlantic States: Delaware. Maryland 1. District of Columbia. Virginia. West Virginia. North Carolina 1. South Carolina 2. Georgia 3. Florida.	0 0 0 0 1 1 1 1 3 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 72 18 26 56 35 7 36	14 94 19 54 86 50 10 29	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 1 7 1 1 1 7	1200

Cases of certain communicable diseases reported by telegraph by State health officers for weeks ended Jan. 23, 1937, and Jan. 25, 1936—Continued

	Polion	yelitis	Scarle	t fever	Sma	llpox	Typho	id fever
Division and State	Week ended Jan. 23, 1937	Week ended Jan. 25, 1936						
East South Central States:					-		11	
Kentucky 4		0		67		. 0		
Tennessee	1	0	30	43	0	0	4	3
Alabama 3	1	8	.9	13	0	0	8	
Mississippi 13	0	0	9	11	1	0	1	
West South Central States:			1 3					
Arkansas	1	0	11	6	0	0	8 1	1
Louisiana	2	1	15	81	0	0		1
Oklahoma	2	0	25	48	0	1	1	1
Texas 1	0	0	107	110	1	1	11	
Mountain States:				1000	111			
Montana	0	0	66	189	12	10	. 0	1
Idaho	0	0	24	69	8	3	0	
Wyoming	0	0	8	79	17	0	0	
Colorado	0	0	19	174	1	4	0	1
New Mexico	0	0	23	41	0	0	3	2
Arizona	0	0	24	47	0	0	0	
Utah 1	0	0	31	91	o l	0	0	1
Pacific States:	- 7	-	44	-		-		
Washington	1	0	45	74	4	15	0	
Oregon	i	Ö	29	77	8	4	0	
California	î	ĭ	270	349	10	ō	8	4
Total	24	13	5, 819	7,411	278	185	113	101
First 3 weeks of year	72	58	17, 256	22, 217	869	701	389	835

SUMMARY OF MONTHLY REPORTS FROM STATES

The following summary of cases reported monthly by States is published weekly and covers only those States from which reports are received during the current week:

State	Menin- gococ- cus menin- gitis	Diph- theria	Influ- ensa	Mala- ria	Mea- sles	Pel- lagra	Polio- mye- litis	Scarlet fever	Small- pox	Ty- phoid fever
November 1936					11				174	19
Hawaii Territory Missouri	14	8 132	506 273	28	390 18		1 22	431	0 22	85
December 1936								1	1	5
Oalifornia	24 12	269	377	8	140	7	32 12	1, 350	28	56
Georgia	12	123	522	359	. 7	17		164		56 26
Hawaii Territory	1	15	18		1, 153		0	0	0	7
owa	8	- 14	70		12		2	441	80	9
Louislana	4	82	60	40	20	2	4	62	1	28
Maryland	15	61	75		544		2	324	0	19
Michigan	11	98 57	20	5	137	*******	7	1,752	1	28 19 39 13
Minnesota	8				107	******	1	616	38	13
Mississippl	7	46	6,044	1,784	410	155		63	1	10 44 2 0
Missourl	8	169	316		26		0	692	43 12	44
Nebraska	2	17			8	*******	1	194		3
Nevada			33		8	2	0	34	0	0
New Mexico	1	15	19	1	134	2 1	3	85	0	34
New York	35	129		11	1, 507		3	2, 251	110	36
Ohio	82	169	119	26	87		16	1, 293	17	34 36 29 19
Oklahoma 1	12	41	348	20	29			94	3	19
Rhode Island	8	3			563		0	168	0	3
vermont			21		•	*******	0	23	0	1

¹ Exclusive of Oklahoma City and Tulsa.

New York City only.
 Week ended earlier than Saturday.
 Typhus fever, week ended Jan. 23, 1937, 36 cases, as follows: North Carolina, 1; South Carolina, 4; Georgia, 16; Alabama, 4; Mississippi, 1; Texas, 10.
 Report for week ended Jan. 23, 1937, not received.
 Exclusive of Oklahoma City and Tulsa.

Summary of monthly reports from States-Continued

November 1936 Hawaii Territory: Co	LSOS	December 1936—Contin Dysentery—Contd.	ued Case	Babies in animals:	d
Chicken pox	20	New Mexico (amoshic)	-	5 California	106
Dysentery (amochic)	2	New Mexico (amoebic) New Mexico (bacillary)		Louistana	27
Dysentery (amoebic) Encephalitis, epidemio	_	New York (amoebic)	_	7 Michigan	
or lethargio	2	New York (amoebic) New York (bacillary)	_ 5		17
Leprosy	2	Ohio (bacillary)	_	Missouri	2
Mumps	118	Oklahoma 1	-	New Mexico	0
Paratyphoid fever	1	Rhode Island (back	-	New York	
Septic sore throat	1	lary)		2 Rocky Mountain spotted	
Typhus fever	13	Encephalitis, epidemic of	r	fever:	
Whooping cough	5	lethargic:		California	2
Missouri:		Georgia	. 1	Scables:	,
Chicken pox	241	10W8	- 1	Oklahoma t	4
Dysentery (amoeble) Encephalitis, epidemic or lethargic	15	Louisiana		Septic sore throat:	_
Encephalitis, epidemie		Maryland	- 1	California	.1
or lethargid	1	Michigan	-	Georgia	37
Mumps	29	Missouri	-	Iowa	1
Ophthalmia neonato-	1	Nebraska	-	Louisiana	10
Rabies in animals		New York Okiahoma 1	-	Maryland	19
Cantile care threat	13 11	Food poisoning:		Michigan	**
Septic sore throat	19	California	. 3		19
Trachoma	22	California		Nebrecka	10
Tularaemia Undulant fever	1	California	. 9	Nebraska New Mexico New York	7
Whooping cough	81	Iowa	. 7	New York	51
w moohing congresses	04	Maryland	. 2	Oblo	103
December 1938		Michigan	. 60		22
Actinomycosis:		New Mexico	- *	Rhode Island	3
California	2	New York	96		
Georgia	ī				2
Minnesota	i	Rhode Island	. 7		1
Anthrax:	-	. Vermont	. 8		i
New York	1	Granuloma, coccidioidal:		Michigan	1
Ohio	ī	California	. 3	New York	5
Chicken pox:	-	Hookworm disease:		Ohio	8
California 2,	402	Georgia	. 1, 781	Trachoma:	
Georgia	101	Louisiana	. 0	California	7
Georgia Hawaii Territory	35	Mississippi	238	Georgia	1
Iowa	439	Mississippi Oklahoma ¹	. 1	Michigan	2
	23	Impetigo contaglosa: Maryland		Michigan Mississippi	17
Louislana	504	Maryland	. 11	Missouri	13
Michigan 2,	689	Judice (epidemic):		New Mexico	1
Minnesota	920	California	. 1	Ohio	3
Mississipppi	761	Lead poisoning:		Oklahoma 1	8
Missouri	494	Michigan		Trichinosis:	
Nebraska	160	Ohio	. 10	California	2
Nevada	25	Leprosy:		Maryland	1
New Mexico	63	Hawaii Territory		New York	21
New York 3,	198	Louisiana		Tularaemia:	
Ohio 24	111	Mumps: California	9 945	California	1
Oklahoma 1	84	Georgia.	190	Georgia.	3
Rhode Island	193	Hawaii Territory	56	Iowa	6
	171	Iowa.		Louisiana	8
Conjunctivitis:	_	Louisiana		Maryland	19
Georgia	5	Maryland	576	Michigan	8
Maryland	1	Michigan	1,011	Missouri	67
Dengue:		Michigan Mississippi	417	New York	13
Georgia.	5	Missouri	54	Ohio	94
Georgia Mississippl	2	Nebraska	136	Oklahoma 1	1
Diarrhea:		Nevada	. 1	Typhus fever:	
Maryland Ohio (under 2 years, en-	16	New Mexico	. 75	California	1
Ohio (under 2 years, en-		OhloOklahoma I	139	Georgia Hawaii Territory	66
teritis included)	17	Oklahoma 1	6	Hawaii Territory	0
Dysentery:		Rhode Island	24	Louisiana	*
California (amoebic)	8	Vermont	86	New York	
California (amoebie) California (bacillary)	20	Ophthalmia neonatorum:		Undulant fever:	
Georgia (amoebie) Georgia (bacillary) Hawaii Territory	7	California	6	California	13
Georgia (bacillary)	1	Mississippi	7	Georgia	
Hawali Territory	. !			Iowa	
(amoebic)	3	New York I. Ohio. Oklahoma I. Rhode Island.	. 5	Louisiana Maryland	-
Hawaii Territory		Onlo	67	Michigan	
(bacillary) Louisiana (amoebic)	10	Okianoma 1	1	Michigan	
Louisiana (amoebic)	10	Khode Island	1	Mississippi	1
Louisiana (hacillary)	3 14	Partayphoid fever: California	-		1
Maryland Michigan (amoebic) Michigan (bacillary)	14	Canrol	2	New Mexico.	1
Michigan (amoebic)	2 14	Georgia	1 4	New York	10
Minnesote (ampable)	471	Louisiana Maryland	-	Obio	14
ATHINGSOLD (BLUGGOIG)	5	Michigan		Oklahoma i	-
	0 1	Michigan	3 8	Vermont	i
Minnesota (amoebie) Minnesota (bacillary) Mississippi (amoebie)	42 1				
Minnesota (bacillary) Mississippi (amoebic) Mississippi (bacillary)	43	Puerperal continumia:		Vincent's infection:	
Minnesota (bacillary) Mississippi (amoebic) Mississippi (bacillary) 2	15	Puerperal septicamia:		Vincent's infection:	14
Mississippi (amoebic)		New I Olk	28	Vincent's infection: Maryland Michigan New York 3	14 32

i Exclusive of Oklahoma City and Tulsa.
Exclusive of New York City.

Summary of monthly reports from States-Continued

December 1936-Continu	ed I	December 1936-Continue	ed l	December 1936-Continued	1
	Cases				ases
California	1, 208		1,308	New Mexico	39
Georgia	25		203	New York 1	, 406
Hawaif Territory	8	Mississippi	235 229	Ohio 1	, 041
Iowa	85	Missouri	229	Oklahoma i	- 1
Louisiana	8	Nebraska	19	Rhode Island	84
Maryland	532	Nevada	1	Vermont	86

WEEKLY REPORTS FROM CITIES

City reports for week ended Jan. 16, 1937

This table summarizes the reports received weekly from a selected list of 140 cities for the purpose of showing a cross section of the current urban incidence of the communicable diseases listed in the table. Weekly reports are received from about 700 cities, from which the data are tabulated and filed for reference.

State and city	Diph-		hienza	Mea-	Pneu- monia	Scar- let		Tuber-	Ty- phoid	Whooping	Deaths,
State and city	Cases	1	Deaths	cases	deaths	fever cases	cases	deaths	fever	cases	CBUSES
Maine: Portland	0	2	0	5	6	1	0	0	0	2	34
New Hampshire:		-				•		"	·		- 01
Concord	0		0	0	2 2	0	0	0	0	0	10
Manchester Nashua	0		1	0	2	3	0	0	0	0	0
Vermont:	0			U		u	0		0	0	*****
Barre			1 0	1	0	0	0	0	0	2	3
Burlington	0		0	0	0	0	0	0	0	2	8
Rutland	0		0	0	1	0	0	0	0	0	8
Boston	3		1	9	40	74	0	12	1	208	283
Fall River	0		1 1 0	9 3 34	5 8	4	0	3	0	0	31
Springfield	0		0	34	8	8	0	3 2 3	0	10	40 73
Worcester	0		0	88	23	3	0	3	0	41	73
Rhode Island: Pawtucket	0		0	0	0	2	0	0	0	0	95
Providence	ĭ		0	53	13	32	Ö	2	0	29	25 88
Connecticut:		_			_						
Bridgeport	0	63 95	2 0	71	7	15	0	2	0	3 2	39
New Haven	ŏ	202	ő	8	77	6	0	ô	0	ő	45
New York:											
Buffalo	0	38	4	40	26	20	0	0	0	19	154
New York	45	926	60	54	394	290	0	92	0	66	2, 121
Rochester	0	6	0	10	8	26	0	0	1	16 29	83
New Jersey:							- 1		.		00
Camden	3	19	8	0	3	2	0	0	1	1	43
Newark	0	103	2 0	153	23	16	0	8	0	24	146
Trenton	0	1	0	0	3	2	0	6	0	2	37
Philadelphia	6	75	15	14	40	186	0	27	2	131	541
Pittsburgh	6	107	26	4	59	51	0	9	0	40	271
Reading			1	2	6	3	0	0	0	30	37
Scranton	2			0		17	0		0	3	
Ohio:							- 1		- 1		
Cincinnati	2	78	14	1	46	22	0	10	0	16	217
Cleveland	0 2 1	210	5	2 2 1	28 14	74	0	9	0	61	230
Columbus	3	8	5	1	14	23	0	5	0	34	91 96
ndiana:	-		-	- 1		-	"	-	-1	-	
Anderson	0		0 11	3	2	8	0	0	0	0	19
Fort Wayne	0		0	1	8	3	0	3	0	0	33
Indianapolis Muncie	0 7 0		11		38	29	0	5	81	10	142
South Bend	0		0	3 0 0	38	4	0	i	0	13	20
Terre Haute	ŏ		0	ŏ	0	4	0	ō	0	0	23
Dinois:					-	-			-1	-	
Alton	0	124	23	0	71	207	0	36	0	60	17 813
Chicago	0	124	0	ó	3		0	0	0		11
Moline	8 0 1	22	1	7 0 0	3 2 5	0	0	0	1 0 0	8 2	17
Springfield	2		1	0 1	5	. 5	0	0	0 1	4	29

¹ Exclusive of Oklahoma City and Tulsa.
2 Exclusive of New York City.

City reports for week ended Jan. 16, 1937-Continued

Charles and older	Diph-	Influenza		Mea-	Pneu-	Scar- let	Small-		Ty- phoid	Whoop-	Deaths
State and city	theria cases	1	Deaths	sles	monia deaths	fever cases	cases	culosis deaths	fever cases	cases	causes
Michigan:							1				
Detroit Flint	16	120	23	6	67	337	0	20	2 0	69	400
Flint.	0		1	0	6	23	0	4	0	9	80
Grand Rapids	0	8	0	2	5	16	0	0	0	19	8:
Wisconsin:											
Kenosha	0	12	0	0	1	10	0	0	0	2	15 15 15 15
Madison Milwaukee	ő	11	10	2	26	33	0	0	0	5	12
Racine	ő	1	1	0	1	5	0	1	0	22	100
Superior	2		1 0	0 2 8 0	1 1	10	0	0 3 1 0	ő	8	12
						-					1111
Minnesota:							1.00				100
Duluth	0		0	3	3	11	0	0 2	0	0	28
Minneapolis	4	13	14	8	34 21	25	0	2	0	10	180
St. Paul	0	7	7	4	21	18	0	1	0	27	96
Iowa: Cedar Rapids	0			0		4	0		0	0	1000
Davenport	0			0		1	Ö		0	ő	
Des Moines	0	448		0		9	0		0	Ö	47
Sioux City	0	554		0		17	0 0 0 2 0		0	0	
Waterloo	1			. 1		3	0		0	16	
Missouri:								-			-
Kansas City	2	26	5	0	23	33	0 34	3	0	8	128
St. Joseph	2.	23	15	1 3	47	3 32	2	0	0	1	30
St. Joseph St. Louis North Dakota:		20	10		21	02	-	14	0	81	834
	0		2	0	8	0	0	0	0	0	17
Grand Forks	0			ő	-	o l	0		ő	ő	11
Minot	Õ		0	0	0	ŏ	0	0	0	Ö	
Bouth Dakota:			-				-	-			
Aberdeen Sioux Falls	0			0		5	0		0	0	
	0		0	0	0	0	0	0	0	0	6
Nebraska:				-							
Omaha Kansas:	0		4	2	28	16	0	0	0	0	100
Lawrence	0	30	0	0	3	0	0	0	0		10
Topeka	ŏ	30	2	0	4	5	ő	0	ő	0	10
Wichita	2		0	0	5	10	ĭ	. 0	o	2	20 38
				1.7							
Delaware:					-						
Wilmington	8		0	87	5	1	0	0	0	0	36
Maryland: Baltimore	1	107	5	248	27	31	0	12		128	-
Cumberland	ô	1	ő	0	-4		0	10	0		269
Frederick	0	-	ŏ	ő	il	1	ŏ	0	0	5	11
District of Colum-			-	-		- 1	-	-	-	"	
bia:											
Washington	19	107	6	23	27	22	0	13	1	15	217
Virginia:			-								
Lynchburg Norfolk	2 2 1	59	0	2	6	1	0	0	0	8	25 25 62 21
Richmond	1	90	8	6	12	A	0	0	0	0	20
Rospoke	ō		ő	0	4	6	o l	ő	ő	0	21
West Virginia:			-	-1	- 1	- 1	- 1	"	-	۰	
Charleston	0	11	0	0	11	1	0	1	0	0	45 18
Wheeling	0		0	1	3	3	0	0	0	0	18
North Carolina:				- 1						-	
Gastonia	. 0		0	0	0	1 2	0	0	0	0 0	17 15 11
Wilmington	0		0	0	3	2	0	0	0	0	17
Winston-Salem.	0	7	0	0	: 1	0	0 1	1	0	0	10
Bouth Carolina:	۰			"			"		0		**
Charleston	3	63	0	0	9	7	0	1	0	0	29
Columbia											-
Florence	0		0	0	2 5	0	0	1 0	0	0	15 18
Greenville	1		0	0	- 5	0	0	0	0	0	18
Georgia: Atlanta	0	90			10	0	- 0				
Brunswick	0	38	4	0	19	0	0	2	0	0	96
Savannah	0	27	0	0	0	0	0	0	0	8	96 8 24
Florida:		7					11		-		
Miami	3	7	1	0	1	1 2	0	1 2	0	1	41 85
Tampa	2		0 '	0	2 1		0 1				-

City reports for week ended Jan. 18, 1937-Continued

State and city	Diph- theria	Infl	uenza	Mea- sles	Pneu- monia	Scar- let	Small- pox	Tuber- culosis	Ty- phoid	Whoop-ing	Deaths,
Blate and City	cases	Cases	Deaths	cases	deaths	fever cases	cases	deaths	fever	cough	causes
Kentucky: Ashland Covington Lexington Tennessee:	0	23	1 0	0 0 5	2 10 6	0 1 0	. 0	1 0 1	0 0	0 0	11
Memphis Nashville	2 4 0	363	1 0 3	0 3 1	5 9 8	1 4 1	0	2 2 1	0 1 0	0 32 0	22 90 5
Alabama: Birmingham: Mobile Montgomery	4 3 0	38	1	1 0 0	8 1	1 2 2	0	1	0 0 1	0 0	77
Arkansas: Fort Smith Little Rock Louisiana:	0	3	2	0	3	1 3	0	i	0	0	7
Lake Charles New Orleans Shreveport	0 5 1	5 12	0	0 1 1	0 22 7	0	0	0 16 1	1 1	0 0 1	164 84
Muskogee Oklahoma City Tulsa Texas:	0 0 2	14	0	0 8 1	10	2 3 4	0	2	0	0 1 0	40
Dallas Fort Worth Galveston Houston San Antonio	3 5 0 8 1	16	4 0 0 1 6	58 2 0 1	10 11 1 12 11	9 4 0 3 3	0 0 0	2 0 2 4 7	0 0 0 1	9 0 0 3 0	77 80 14 88 79
Montana: Billings Great Falls Helena Missoula	0 0 0	458	1 2 0 0	0 0 0	7 1 0 1	0 1 8 0	0 0 0	0 0 0	0 0 0	2 0 0	16 10 3 7
daho: Boise Colorado:	0		0	0	2	2	0	1	0	0	14
Colorado Springs Denver Pueblo	0 1 0	5	1 49 0	2 4 0	5 33 8	8 12 2	0 0	1 4 0	0 0	1 43 1	18 200
New Mexico: Albuquerque Utah: Salt Lake City. Nevada:	0	14	0 2	0 11	6	3 15	0	0	0	6	19 43
Reno											
Vashington: Seattle Spokane	0		4	12	10	1	0	6	0	6	129
Tacoma Portland	0	160	0 2	0	12	13	0	3	0	10	101
Salem California: Los Angeles Sacramento San Francisco	0 0 3	24 5 316	0 7	2 4	11 23	21 20	0 0	1 9	0 0	3 1 24	44 248

City reports for week ended Jan. 16, 1937-Continued

State and city		gococcus ingitis	Polio- mve-	State and city		zococcus ingitis	Polio- mye-
	Cases	Deaths	litis		Cases	Deaths	litis cases
New Hampshire;				District of Columbia:			190
Manchester	0	1	0	Washington West Virginia:	2	1	
Boston	2	1	0	Wheeling	0	0	1
Worcester	1	l il	0	South Carolina:		-	
New York:				Greenville	1	0	. 0
New York	17	3	0	Florida: Miami			
New Jersey: Newark	0	2	0	Miami	1	1	0
Pennsylvania:	0	2	0	Kentucky: Ashland	. 0		0
Philadelphia	2	8	0	Alabama:	U	1	
Pittsburgh	2	0	Ö	Birmingham	4	0	0
Ohio:		"		Arkansas:		"	
Cincinnati	0	1	0	Little Rock	1	1	0
Columbus	1	0	0	Louisiana:			
Toledo	1	0	0	New Orleans	0	1	1
Indiana:				Shreveport	0	2	0
Indianapolis	2	0	0	Oklahoma:			
Illinois:				Tulsa	0	0	1
Chicago	8	1	0	Texas: Houston			
Springfield	0	1	0	Colorado:	2	0	U
Detroit	1	0	0	Denver	1	0	
Grand Rapids	ô	ő	1	Utah:	1	0	0
Minnesota:		0	*	Salt Lake City	1	0	0
Minneapolis	1.	- 1	1	California:	-	۰	
Missouri:		-	-	Sacramento	1	1	0
St. Louis	2	0	0			1	
Maryland:					1 1		
Baltimore	5	3	0				

Encephalitis, epidemic or lethargic.—Cases: New York, 4; Philadelphia, 1; St. Paul, 1; Omaha, 1. Pellagra.—Cases: Atlanta, 1; Savannah, 1; Miami, 2; San Francisco, 1. Typhus ferer.—Cases: Atlanta, 2; Savannah, 1.

14.

FOREIGN AND INSULAR

AUSTRIA

Vital statistics—1933 and 1934—Comparative.—Following are vital statistics for Austria for the years 1933 and 1934, comparative.

	1933	1934	Y 15.03	1933	1934
Population Number of marriages Number of births Deaths under 1 year of age Total deaths Deaths from: Accidents Apoplexy Cholera, infantile. Congenital debility Diphtheria. Dysentery.	6, 536, 892 43, 914 98, 867 9, 029 89, 092 2, 289 5, 838 576 2, 772 980 20	6, 760, 233 43, 424 93, 602 8, 314 85, 431 2, 725 5, 544 534 2, 696 1, 006	Deaths from—Continued. Homicide Inflammation of lungs Maignant tumors Measles Puerperal fever Scarlet fever Suicide Tuberculosts Typhoid fever Whooping cough	198 7, 383 11, 251 89 244 124 2, 856 8, 087 121 147	329 6, 191 11, 810 36 229 73 2, 651 7, 506 105

CANADA

Provinces—Communicable diseases—2 weeks ended January 9, 1937.—During the 2 weeks ended January 9, 1937, cases of certain communicable diseases were reported by the Department of Pensions and National Health of Canada as follows:

Disease	Prince Edward Island	Nova Scotia	New Bruns- wick	Que- bec	Onta- rio	Mani- toba	Sas- katch- ewan	Alberta	British Colum- bis	Total
Cerebrospinal men- ingitis		1 7	2 7 1	287 44 2	5 862 29	80	139	49	219 3	1, 64
Erysipelas Influenza Measles Mumps Paratyphoid fever	i	12 17	10 39	15 572	91 735 465	3 6 26 107	3 1,114 38	4 491 26	12 41 1,722 129	4, 15 4, 68 80
Poliomyelitis	12	4 25	11	1 130	68 1 272	6 88	1 13 36	162	19	10 2 77
Tuberculosis Typhoid fever Undulant fever	3	12	18	95	83 2 2	12 6	2 4	3 2	29 1	25 1
Whooping cough		22		174	236	4	38	10	29	5

CUBA

Provinces—Notifiable diseases—4 weeks ended January 9, 1937.— During the 4 weeks ended January 9, 1937, cases of certain notifiable diseases were reported in the Provinces of Cuba as follows:

Disease	Pinar del Rio	Habana	Matan-	Santa Clara	Cama- guey	Oriente	Total
Cancer Diphtheria. Malaria Measles Poliom velitis.	1 2 166 1	48	11 1	6 1 57	4 254	517 3	1, 05
Tuberculosis. Typhoid fever. Yaws.	8 11	12 26	33 2	19 60	20 6	22 26 8	110

CZECHOSLOVAKIA

Communicable diseases—November 1936.—During the month of November 1936, certain communicable diseases were reported in Czechoslovakia as follows:

Disease	Cases	Deaths	Disease	Cases	Deaths
Anthrax Cerebrospinal meningitis Chicken pox Diphtheria Dysentery Influenza Lethargic encephalitis Malaria	7 6 503 3, 104 13 75 1 35	1 4 174 2 2 2	Paratyphoid fever Poliomyelitis Puerperal fever Scarlet fever Trachoms Typhoid fever Typhus fever	49 20 32 2,928 85 666 10	1 1 15 43 58

ITALY

Communicable diseases—4 weeks ended November 8, 1936.—During the 4 weeks ended November 8, 1936, cases of certain communicable diseases were reported in Italy as follows:

92	Oct. 12-18		Oct	. 19-25	Oct. 2	6-Nov. 1	No	v. 2-8
Disease	Cases	Com- munes affected	Cases	Com- munes affected	Cases	Com- munes affected	Cases	Com- munes affected
Anthrax	30 10 79	23	23 12	20 12 82	28	20	17 15	17 12
Chicken pox	79 633 23 20	51 304 17 8	173 750 10 16	82 335 9 8	164 642 11 8	87 818 7 7	257 638 19 3	122 333 14
Lethargic encephalitis Measles Mumps Paratyphoid fever	369 90 129	1 93 49 73 32	557 104 102	1 124 49 63	692 156 91	137 55 68	918 212 57	155 70 48
Poliomyelitis Puerperal fever Rabies	39 41	32 38	25 46 1	63 22 46 1	45 33	40 80	38 44	48 84 41
Scarlet fever Typhoid fever Undulant fever Whooping cough	350 700 19 245	170 392 17 100	380 717 47 240	179 378 32 79	333 568 30 238	149 312 28 74	402 491 16 243	176 263 16 72

NEWFOUNDLAND AND LABRADOR

Vital statistics—1935.—The following table shows the births and deaths, together with deaths from certain diseases, reported in Newfoundland and Labrador during 1935.

PopulationBirths	296, 994 6, 800
Birth rate per 1,000 popula-	0, 000
tion	22, 89
Deaths	4, 057
Death rate per 1,000 popula-	
tion	13. 66
Infant mortality rate	103. 8
Deaths from—	
Cancer	235
Heart disease	197
Pneumonia	272
Tuberculosis, all forms	580

CHOLERA, PLAGUE, SMALLPOX, TYPHUS FEVER, AND YELLOW FEVER

NOTE.—A table giving current information of the world prevalence of quarantinable diseases appeared in the Public Health Reports for January 29, 1937, pages 143-155. A similar cumulative table will appear in the Public Health Reports to be issued February 26, 1937, and thereafter, at least for the time being, in the issue published on the last Friday of each month.

Cholera

Siam.—Information received from the American Consul in Bangkok, Siam, under date of December 31, 1936, states that the cholera epidemic in Siam appeared on the northwestern frontier during the first week in December, and was thought to have been introduced from Burma. The outbreak was stated to be increasing in both incidence of cases and deaths and in area of prevalence. Physicians have been sent to the severely infected areas, and efforts are being made to bring the epidemic under control by the establishment of quarantine stations, inoculation, and education in preventive measures by means of handbills and posters. More than 10,000 persons had been inoculated. It was feared that, with the approach of the warm season, the epidemic may increase in the rural districts.

Smallpox

Mexico.—During the month of October 1936, smallpox was reported in Mexico as follows: Mexico, D. F., 6 cases, 1 death; Nogales, Sonora State, 1 case; Toluca, Mexico State, 1 case.

Typhus fever

Mexico.—During the month of October 1936, typhus fever was reported in Mexico as follows: Aguascalientes, Aguascalientes State, 2 cases; Mexico, D. F., 14 cases, 7 deaths; Oaxaca, Oaxaca State, 2 cases, 1 death; Puebla, Puebla State, 2 cases; Queretaro, Queretaro State, 3 cases; San Luis Potosi, San Luis Potosi State, 1 case; Toluca, Mexico State, 18 cases, 1 death.

Peru.—During the month of October 1936, cases of typhus fever were reported in Peru, by Departments, as follows: Apurimac, 1; Arequipa, 3; Ayacucho, 1; Cuzco, 23; Huancavelica, 1; Huanuco, 12; Ica, 8; Junin, 12; Libertad, 6; Lima, 1; Puno, 12.

Yellow fever

Brazil—Matto Grosso State—Entre Rios.—On December 12, 1936, one case of yellow fever with one death was reported in Entre Rios, Matto Grosso State, Brazil.

Gold Coast—Accra.—During the week ended January 23, 1937, four fatal cases of yellow fever were reported at Accra, Gold Coast.

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